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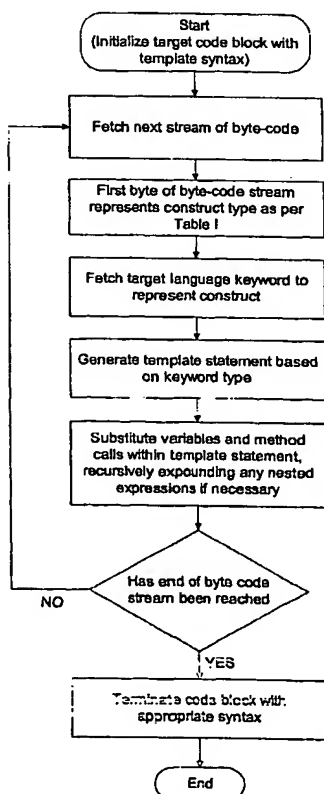
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(54) Title: BI-DIRECTIONAL PROGRAMMING SYSTEM/METHOD FOR PROGRAM DEVELOPMENT



(57) Abstract: The invention provides a bi-directional programming method/sys-
tem/computer product for a programmer to enter source level instructions via either
a visual language interface or a traditional syntactic level (code) interface. Irrespective
of which means is used to describe the program, a corresponding "view" of the
program (visual or syntax) is generated. Changes to the program can be made at
either level, allowing the regeneration of the corresponding view (visual or syntax)
to reflect the changes. For example, should the original program be described in
a visual format, then a program can be generated in the corresponding syntax level
format. Similarly, if a programmer wishes to make changes to this syntax level, then
the equivalent version of the program can be regenerated in the visual format to reflect
the changes. The invention can advantageously be used to develop back-end logic for
an application program.



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